

SKOKOMISH RIVER BASIN

12056500 NORTH FORK SKOKOMISH RIVER BELOW STAIRCASE RAPIDS, NEAR HOODSPORT, WA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1973 to September 1985; September 1995 to April 1998; January 2001 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1996 to April 1998 (discontinued).

WATER TEMPERATURE: April 1965 to September 1982, June 1989 to December 1989, December 1990 to April 1991, June 1992 to April 1998, October 1999 to current year.

INSTRUMENTATION.--Temperature recorder April 1965 to September 1982, June 1989 to April 1998, October 1999 to current year. Water-quality monitor April 1996 to April 1998 (discontinued). Electronic Data Logger with 15-minute recording interval. Prior to June 13, 1997, a 60-minute recording interval.

REMARKS.--Temperature records good except for period Oct. 1-6, Jan. 7-26, which are fair, Jan. 27 to Mar. 23 and Aug. 9 to Sept. 30, which are poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 108 microsiemens, Sept. 11, 28, 1996; minimum recorded, 25 microsiemens, Mar. 18, 19, 1997.

WATER TEMPERATURE: Maximum recorded, 16.5°C (rounded), Aug. 14, 15, 1992; minimum, 0.0°C, Mar. 24, 1976, Jan. 31, 1996, Dec. 29, 1996.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 15.6°C, Aug. 13, 19, but may have been higher during period of missing record; minimum, 1.4°C, Jan. 6, 7.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	13.6	10.0	11.4	5.5	4.8	5.2	5.4	4.7	5.1	4.2	4.0	4.1
2	12.7	10.0	11.1	5.5	5.0	5.2	5.5	4.7	5.3	4.2	3.6	3.9
3	13.0	9.5	10.8	5.0	4.5	4.8	4.7	4.3	4.5	3.7	3.1	3.5
4	13.6	9.1	10.7	4.8	4.1	4.5	4.9	4.4	4.6	3.1	2.4	2.7
5	12.5	10.5	11.2	4.1	3.8	4.0	5.3	4.9	5.1	2.6	2.1	2.4
6	13.5	9.9	11.2	4.0	3.6	3.8	5.3	4.9	5.1	2.6	1.4	1.9
7	11.2	10.0	10.6	4.9	3.9	4.4	5.2	4.6	4.9	2.6	1.4	2.0
8	10.4	9.6	10.1	5.4	4.9	5.1	5.0	4.7	4.8	3.7	2.3	3.2
9	9.6	8.9	9.2	5.8	5.2	5.5	5.1	4.7	4.9	4.1	3.3	3.8
10	9.5	8.5	8.9	6.1	5.5	5.8	5.0	4.8	4.9	4.5	3.7	4.1
11	8.9	8.3	8.7	6.3	5.8	6.0	5.3	4.8	5.0	4.9	4.4	4.6
12	8.6	8.0	8.3	5.8	5.3	5.5	4.9	4.3	4.6	5.0	4.6	4.7
13	8.7	8.1	8.4	5.4	5.0	5.2	5.1	4.7	4.9	4.8	4.5	4.6
14	8.7	8.0	8.4	6.2	5.4	5.8	4.7	4.4	4.5	4.7	4.0	4.4
15	8.3	7.8	8.0	6.4	5.9	6.2	5.0	4.4	4.7	5.0	4.7	4.8
16	9.2	7.5	8.3	6.0	4.6	5.3	4.9	3.9	4.5	5.0	4.6	4.8
17	9.5	8.9	9.2	5.7	4.9	5.4	4.9	4.6	4.8	5.3	4.8	5.1
18	9.0	8.6	8.8	6.4	5.1	5.7	4.9	4.7	4.8	5.3	5.0	5.1
19	9.3	8.6	9.0	6.4	5.2	5.6	5.1	4.7	4.9	5.1	4.8	4.9
20	10.0	8.6	9.4	5.2	5.0	5.1	5.1	4.8	5.0	5.0	4.6	4.8
21	9.3	9.0	9.1	5.0	4.3	4.6	4.8	4.5	4.7	4.8	4.3	4.5
22	9.2	8.7	9.1	4.6	4.1	4.4	4.9	4.6	4.7	4.7	4.1	4.4
23	8.7	7.7	8.0	5.1	4.5	4.8	5.0	4.6	4.8	4.3	3.9	4.1
24	7.7	7.0	7.3	5.0	4.4	4.7	5.0	4.2	4.6	4.1	3.4	3.8
25	7.4	6.9	7.2	4.4	3.0	3.9	4.9	4.4	4.7	3.8	3.3	3.5
26	8.0	7.4	7.7	4.7	4.3	4.5	4.6	4.2	4.4	3.7	3.3	3.5
27	8.3	7.8	8.1	5.0	4.5	4.8	4.3	3.2	3.8	3.8	3.4	3.5
28	8.8	7.8	8.4	4.9	4.4	4.7	4.1	3.8	4.0	3.7	3.4	3.5
29	7.8	6.6	7.2	5.4	4.7	5.1	3.8	3.3	3.5	3.7	3.0	3.5
30	6.7	5.8	6.3	5.3	4.6	4.9	3.7	3.1	3.4	3.5	2.9	3.2
31	5.9	5.0	5.3	---	---	---	4.1	3.1	3.7	3.7	2.7	3.3
MONTH	13.6	5.0	8.9	6.4	3.0	5.0	5.5	3.1	4.6	5.3	1.4	3.9

12056500 NORTH FORK SKOKOMISH RIVER BELOW STAIRCASE RAPIDS, NEAR HOODSPORT, WA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	3.5	3.1	3.3	5.3	4.7	5.0	4.8	3.5	4.2	7.7	5.9	6.8
2	3.5	2.3	2.9	5.0	4.5	4.7	5.1	3.6	4.5	7.7	6.2	6.9
3	3.8	3.2	3.5	5.5	4.7	5.0	5.8	4.3	5.1	7.0	6.0	6.6
4	3.9	3.4	3.6	5.4	4.9	5.1	5.8	4.6	5.2	6.8	6.0	6.4
5	4.0	3.6	3.8	5.0	4.3	4.7	5.9	4.6	5.3	6.4	5.1	5.8
6	3.9	3.6	3.8	4.9	4.2	4.6	6.0	4.5	5.3	7.1	5.3	6.3
7	4.3	3.7	3.9	4.9	4.3	4.7	6.2	5.2	5.7	6.8	5.9	6.3
8	4.3	3.9	4.1	---	---	---	6.2	4.7	5.5	6.7	5.4	6.1
9	4.1	3.5	3.8	---	---	---	6.2	4.7	5.5	7.1	5.3	6.2
10	4.2	3.6	3.9	---	---	---	6.5	4.9	5.8	6.9	5.8	6.4
11	4.4	3.7	4.0	4.8	3.8	4.4	6.8	5.0	5.9	7.6	5.8	6.7
12	4.4	3.7	4.1	---	---	---	6.2	5.1	5.7	7.1	5.9	6.6
13	4.4	4.0	4.2	---	---	---	6.0	4.9	5.5	7.2	5.8	6.5
14	4.5	4.2	4.3	5.7	4.8	5.4	5.7	5.1	5.5	8.1	6.0	7.1
15	4.4	3.6	4.1	---	---	---	5.9	4.7	5.3	7.5	6.3	6.9
16	4.4	4.1	4.3	---	---	---	6.1	5.0	5.5	7.4	6.0	6.8
17	4.6	4.1	4.3	---	---	---	6.2	5.0	5.6	8.1	6.2	7.1
18	4.4	4.1	4.3	---	---	---	6.0	4.8	5.4	8.3	6.5	7.4
19	4.9	4.4	4.7	---	---	---	5.5	4.7	5.2	7.5	6.7	7.1
20	4.8	4.4	4.6	---	---	---	5.3	4.6	4.9	8.8	6.5	7.6
21	4.8	4.3	4.5	5.0	3.8	4.5	6.1	4.5	5.3	8.6	7.0	7.7
22	5.0	4.5	4.7	5.5	4.6	5.0	6.5	4.7	5.6	8.0	6.8	7.3
23	5.3	4.8	5.0	5.1	4.4	4.8	6.9	5.4	6.0	7.9	6.2	7.0
24	5.0	4.4	4.8	4.7	3.8	4.4	6.4	4.9	5.7	8.3	6.3	7.2
25	4.7	4.1	4.4	3.8	3.2	3.4	7.1	5.0	6.1	8.1	6.6	7.4
26	4.8	4.3	4.5	3.6	2.5	3.1	7.8	5.6	6.7	8.5	7.1	7.7
27	5.0	4.5	4.7	4.3	3.1	3.8	7.1	5.5	6.2	7.5	6.6	7.0
28	5.2	4.7	4.9	4.6	3.6	4.1	6.8	4.6	5.7	7.5	6.1	6.7
29	5.3	4.7	4.9	4.9	3.8	4.4	7.2	5.0	6.2	7.0	6.3	6.7
30	---	---	---	5.0	4.0	4.5	7.8	5.5	6.7	7.8	6.5	7.1
31	---	---	---	4.5	3.5	4.0	---	---	---	7.4	6.3	6.8
MONTH	5.3	2.3	4.2	---	---	---	7.8	3.5	5.6	8.8	5.1	6.8
	JUNE			JULY			AUGUST			SEPTEMBER		
1	8.1	6.3	7.0	12.4	10.3	11.3	15.1	12.2	13.5	13.5	11.4	12.3
2	8.9	6.4	7.7	11.4	10.3	10.7	14.8	12.5	13.4	12.6	10.8	11.6
3	9.6	6.9	8.3	11.6	10.0	10.7	13.9	12.4	12.9	12.8	10.7	11.6
4	9.9	7.5	8.7	12.5	10.1	11.2	13.6	12.1	12.7	13.1	10.9	11.8
5	8.8	7.5	8.0	12.4	9.9	11.2	13.8	11.7	12.5	12.8	10.4	11.4
6	7.8	7.0	7.4	12.3	10.6	11.3	11.9	11.3	11.6	12.2	10.5	11.2
7	8.0	6.9	7.4	11.8	10.0	10.6	12.5	10.9	11.6	13.4	10.5	11.3
8	9.6	7.0	8.2	11.9	9.5	10.4	14.3	10.7	12.0	12.5	10.4	11.1
9	9.3	7.9	8.7	10.9	9.9	10.3	---	---	---	12.9	10.4	11.4
10	8.8	7.7	8.3	10.4	9.2	9.9	---	---	---	12.5	10.7	11.4
11	8.0	7.1	7.6	11.2	9.1	10.1	---	---	---	12.1	11.2	11.6
12	8.1	6.9	7.5	11.9	9.4	10.6	15.4	12.5	13.6	11.8	10.7	11.3
13	8.3	7.2	7.7	13.0	10.2	11.4	15.6	12.6	13.7	11.5	10.5	10.9
14	8.2	6.8	7.5	12.8	10.8	11.7	15.2	12.7	13.6	11.0	9.7	10.5
15	9.2	6.7	8.0	13.6	11.2	12.1	15.0	12.9	13.7	10.8	9.4	10
16	9.8	7.3	8.6	13.7	10.9	12.1	14.9	12.7	13.5	10.2	9.6	9.8
17	10.7	7.9	9.3	13.6	10.9	12.1	15.4	12.6	13.7	9.7	8.6	9.2
18	10.9	8.4	9.6	14.0	11.5	12.5	15.1	12.6	13.7	---	---	---
19	10.3	8.3	9.2	12.4	11.5	11.9	15.6	12.7	13.8	---	---	---
20	11.1	8.4	9.8	14.1	11.0	12.2	15.2	12.8	13.9	9.3	8.4	8.9
21	11.7	9.1	10.4	14.2	11.1	12.4	13.6	12.5	13.2	9.9	8.7	9.3
22	11.8	9.5	10.6	14.3	11.2	12.5	14.7	12.3	13.1	10.0	9.5	9.7
23	11.3	9.7	10.5	14.8	11.5	12.9	13.6	12.3	12.9	10.7	9.5	10.1
24	11.4	9.7	10.5	15.0	11.9	13.3	13.6	12.1	12.6	10.7	9.6	10.1
25	11.8	9.8	10.6	14.3	12.4	13.2	12.1	11.4	11.7	10.9	9.6	10.2
26	10.9	9.4	10.3	14.6	12.0	13.2	12.2	10.9	11.6	11.6	10.0	10.4
27	11.4	9.2	10.3	15.0	12.1	13.3	13.0	11.3	12.0	11.0	9.7	10.3
28	11.9	9.4	10.6	15.2	12.4	13.5	13.5	11.2	12.1	11.3	9.7	10.3
29	12.1	9.6	10.9	15.2	12.5	13.6	13.9	11.5	12.4	10.7	10.0	10.3
30	12.3	10.0	11.3	15.3	12.7	13.6	14.1	12.0	12.8	10.7	9.6	10.1
31	---	---	---	15.4	12.2	13.5	14.1	11.6	12.7	---	---	---
MONTH	12.3	6.3	9.0	15.4	9.1	11.9	---	---	---	---	---	---

SKOKOMISH RIVER BASIN

12056500 NORTH FORK SKOKOMISH RIVER BELOW STAIRCASE RAPIDS, NEAR HOODSPORT, WA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Noncarb hardness, wat flt field, mg/L as CaCO ₃ (00904)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
NOV 06...	1220	269	745	12.9	100	7.5	94	.9	3.9	--	--	--	--
JAN 22...	1210	538	743	12.9	102	7.2	77	5.2	4.5	--	--	--	--
MAR 11...	1230	464	745	12.7	101	7.8	74	12.7	4.8	--	--	--	--
MAY 06...	1230	445	738	12.3	103	7.8	72	17.8	6.5	--	--	--	--
JUN 14...	1110	405	746	12.2	104	7.9	71	13.0	7.6	--	--	--	--
JUL 15...	1100	160	741	10.8	103	8.0	87	18.4	11.7	39	4	14.2	.925
SEP 09...	1240	75	741	10.7	105	8.0	97	20.0	13.0	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt inc tit field, mg/L as CaCO ₃ (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)
NOV 06...	--	--	--	--	36	44	.0	--	.94	--	--	7.1	--
JAN 22...	--	--	--	--	31	38	.0	--	.72	--	--	5.6	--
MAR 11...	--	--	--	--	30	37	.0	--	.82	--	--	5.4	--
MAY 06...	--	--	--	--	29	36	.0	--	.69	--	--	5.0	--
JUN 14...	--	--	--	--	29	36	.0	--	.59	--	--	4.7	--
JUL 15...	.18	.1	1.78	9	35	43	.0	<.02	.73	<.2	5.50	6.3	51
SEP 09...	--	--	--	--	40	49	.0	--	.90	--	--	6.7	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Residue water, fltrd, tons/acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd, mg/L as P (00665)	Total nitrogen, wat unf by anal ysis, mg/L (62855)	Total carbon, suspnd sediment total, mg/L (00694)	Organic carbon, suspnd sediment total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Iron, water, fltrd, ug/L (01046)
NOV 06...	--	--	<.04	E.03	<.008	--	E.003	E.003	.04	--	--	--	--
JAN 22...	--	--	<.04	<.06	<.008	--	<.006	.004	.06	--	--	--	--
MAR 11...	--	--	<.04	<.06	<.008	--	<.006	E.004	.04	--	--	--	--
MAY 06...	--	--	<.04	<.06	E.004	--	<.006	.007	.04	--	--	--	--
JUN 14...	--	--	<.04	<.06	<.008	--	<.006	E.004	<.03	--	--	--	--
JUL 15...	.08	26.4	<.04	<.06	<.008	<.02	<.006	E.002	.03	<.1	<.1	.4	<6
SEP 09...	--	--	<.04	<.06	<.008	--	E.003	<.004	.03	--	--	--	--

12056500 NORTH FORK SKOKOMISH RIVER BELOW STAIRCASE RAPIDS, NEAR HOODSPORT, WA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Mangan- ese, water, fltrd, ug/L (01056)	Sus- pended sediment concen- tration mg/L (80154)	Sus- pended sediment dis- charge, tons/d (80155)
NOV 06...	--	1	.73
JAN 22...	--	1	1.5
MAR 11...	--	1	1.3
MAY 06...	--	2	2.4
JUN 14...	--	1	1.1
JUL 15...	<.8	1	.43
SEP 09...	--	<.5	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Biomass peri- phyton, ashfree drymass g/m ² (49954)	Peri- phyton biomass ash weight, g/m ² (00572)	Peri- phyton biomass dry weight, g/m ² (00573)
AUG 24...	1100	14.4	150	163.0